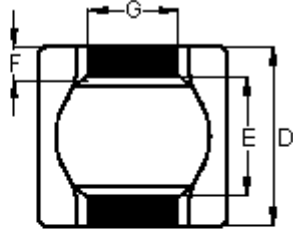
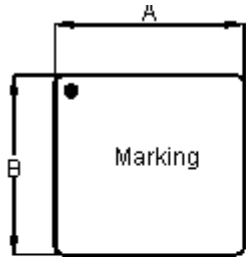
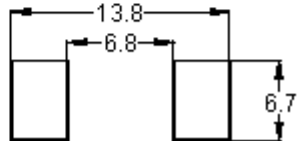
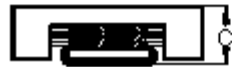


ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Configurations and Dimensions



A	12.6 ±0.4 mm	-
B	12.6 ±0.4 mm	-
C	4.6 ±0.4 mm	-
D	12.7 ±0.4 mm	-
E	7.6 ±0.4 mm	-
F	2.4 mm	(Reference)
G	5 ±0.4 mm	-



Dimensions : Millimetres

Marking : 2R7 1. The long pin is the beginning of winding.
YYWW

Electrical Characteristics

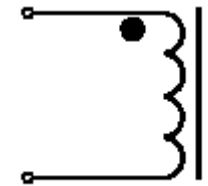
300KHz 0.25V	L	2.7μH ±20%
Ta = 25°C	DCR	4.3mΩ ±7%
300KHz 0.25V I _{rms} = 15A (Maximum)	L at I _{rms}	2.22μH (Reference)
300KHz 0.25V I _{max} = 24A (Maximum)	L at I _{max}	1.93μH (Reference)

Operating temperature: -40°C to +150°C

Note

I_{rms} : DC current rating at 50°C temperature raise (typical)
I_{max} : DC current rating at 100°C temperature raise (typical)

Schematic Diagram



Note:

- Wire FW031240054505T5-A28
- 5.5TS



Test Data for Mechanical

Test Item	A mm	B mm	C mm	D mm	E mm	F mm	G mm
Specification	12.6 ±0.4	12.6 ±0.4	4.6 ±0.4	12.7 ±0.4	7.6 ±0.4	2.4 (Reference)	5 ±0.4
1	12.75	12.76	4.76	12.77	7.75	2.38	4.74
2	12.76	12.77	4.82	12.8	7.69	2.39	4.79
3	12.73	12.74	4.79	12.83	7.78	2.38	4.84
4	12.76	12.76	4.71	12.87	7.69		4.88
5	12.74	12.75	4.73	12.76	7.75	2.39	4.86
Average	12.75	12.76	4.76	12.81	7.73	2.38	4.82

TOLERANCES:

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE FOR REFERENCE PURPOSES ONLY.

DRAWN BY:

Shashi

DATE:

07/02/11

CHECKED BY:

Jagan

DATE:

07/02/11

APPROVED BY:

Farnell

DATE:

21/02/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10002651

ELECTRONIC FILE
SC5018-2R7MU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 1 OF 3



PART NO.

MCSC5018-2R7MU

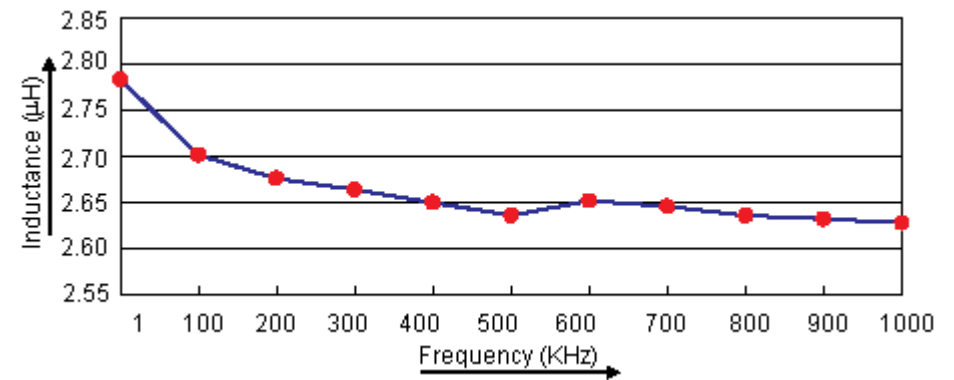
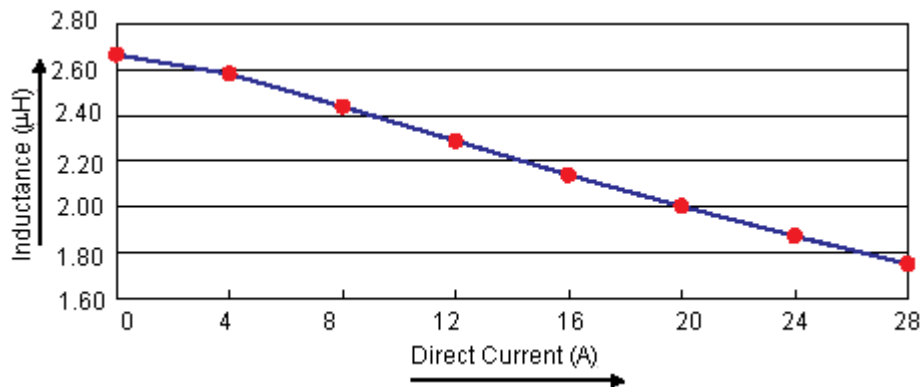
REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Test Data for Electrical

Test Item	L μH	DCR $\text{m}\Omega$	L at I_{rms} μH	L at I_{max} μH
Condition	300KHz 0.25V	at 25°C	300KHz 0.25V $I_{\text{rms}} = 15\text{A}$ (Maximum)	300KHz 0.25V $I_{\text{max}} = 24\text{A}$ (Maximum)
Specification	2.7 $\pm 20\%$	4.3 $\pm 7\%$	2.22 (Reference)	1.93 (Reference)
1	2.58	4.19	2.14	1.9
2	2.68		2.21	1.97
3	2.66		2.18	1.93
4	2.65		2.16	1.92
5	2.67	4.2	2.18	1.93
Average	2.65	4.19	2.17	1.93

Electric Characteristics



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CHECKED BY:

Jagan

DATE:

07/02/11

APPROVED BY:

Farnell

DATE:

21/02/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10002651

ELECTRONIC FILE
SC5018-2R7MUREV
A

SCALE: NTS

U.O.M.: mm

SHEET: 2 OF 3



PART NO.

MCSC5018-2R7MU

REVISIONS

ECN #	REV	DESCRIPTION	DRAWN	DATE	CHECKD	DATE	APPRVD	DATE
-	A	RELEASED	Shashi	07/2/11	Jagan	07/2/11	Farnell	21/2/11

Material List

No.	Item	Material Description
1	Core	SMF430/105-SF56Q-GT; SPF120-SF56Q-GT
2	Wire	FW031240054505T5-A28
3	Winding	5.5TS
4	Taping	SC5015/SC5018 800 Pieces/Reel
5	Marking	2R7 YYWW

Part Number Table

Description	Part Number
Inductor, 2.7μH, 20%, 17A	MCSC5018-2R7MU

<http://www.farnell.com><http://www.newark.com><http://www.cpc.co.uk>

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Jagan

DATE:

07/02/11

APPROVED BY:

Farnell

DATE:

21/02/11

DRAWING TITLE:

Inductor

SIZE
A

DWG NO.

M10002651

ELECTRONIC FILE

SC5018-2R7MU

REV
A

SCALE: NTS

U.O.M.: mm

SHEET: 3 OF 3